



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re. Application of:

Robert YS Huang

Serial No.: 10/026,257

Filed: 12/21/2001

Title: A Mask Layer and Interconnect  
Structure for Dual Damascene  
Fabrication of a Semiconductor  
Device

)  
)  
) Examiner: Not Yet Assigned

)  
) Group Art Unit: 2812

Commissioner for Patents  
Box PATENT APPLICATION  
Post Office Box 2327  
Arlington, Virginia 22202

Sir:

**SUBMITTAL OF FORMAL DRAWINGS**

In response to the Notice to File Corrected Papers mailed on February 7, 2002 and the Notice of Incomplete Reply mailed on May 23, 2002, enclosed herewith are fifteen (15) sheets of formal drawings for FIGs. 1 through 29. A copy of the notices are also enclosed.

Please substitute these formal drawings for the drawings now on file in the above-identified patent application.

Respectfully submitted,

Robert L. Wolter, Esquire  
Reg. No. 36,972  
Beusse, Brownlee, Bowdoin & Wolter, P.A.  
390 N. Orange, Avenue, Ste. 2500  
Orlando, FL 32801  
Telephone: (407) 926-7706  
Facsimile: (407) 926-7720  
Email: [rwolter@iplawfl.com](mailto:rwolter@iplawfl.com)

10026257-06300



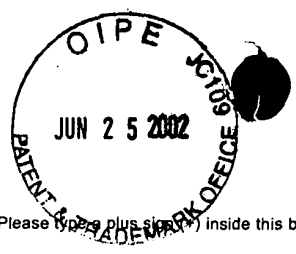
Certificate of Mailing

I hereby certify that a true and correct copy of the above and foregoing Submittal of Formal Drawings was furnished by First Class Mail to the Commissioner for Patents, Attention: Official Draftsperson, Post Office Box 2327, Arlington, Virginia 22202 on this 19<sup>th</sup> day of June, 2002.

\_\_\_\_\_  
Gwendolyn C. Ramsey

2002 JUN 25 10:00 AM

2/2



03008

Please type plus sign (+) inside this box → +

PTO/SB/21 (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	<b>Application Number</b>	<b>10/026,257</b>
	<b>Filing Date</b>	<b>December 21, 2002</b>
	<b>First Named Inventor</b>	<b>Huang, Robert YS</b>
	<b>Group Art Unit</b>	<b>2812</b>
	<b>Examiner Name</b>	<b>Not Yet Assigned</b>
<b>Total Number of Pages in This Submission</b>	<b>Attorney Docket Number</b>	<b>Huang 3-8-3-2-2-25-5/75903</b>

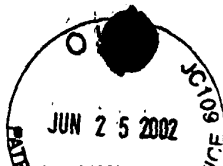
<b>ENCLOSURES (check all that apply)</b>		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input checked="" type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>1) Submittal of Formal Drawings</b> <b>2) Return Postcard</b>
<b>Remarks</b>		

<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>	
<b>Firm or Individual name</b>	<b>Robert L. Wolter, Esquire</b> <b>Beusse, Brownlee, Bowdoin &amp; Wolter, P.A.</b>
<b>Signature</b>	
<b>Date</b>	<b>June 19, 2002</b>

<b>CERTIFICATE OF MAILING</b>			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <b>June 19, 2002</b>			
<b>Typed or printed name</b>	<b>Gwendolyn C. Ramsey</b>		
<b>Signature</b>		<b>Date</b>	<b>June 19, 2002</b>

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

10026257-03008



PTO/SB/17 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL**  
**for FY 2000**

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT** (\$ ) 440.00**Complete if Known**

Application Number	10/026,257
Filing Date	12/21/2001
First Named Inventor	Huang, Robert YS
Examiner Name	Not Yet Assigned
Group Art Unit	2812
Attorney Docket No.	Huang 3-8-3-2-2-25-5/75903-21

**METHOD OF PAYMENT** (check one)

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number	
Deposit Account Name	

☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17☐ Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:**

☒ Check ☐ Credit card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)		
101	690	201	345	Utility filing fee	
106	310	206	155	Design filing fee	
107	480	207	240	Plant filing fee	
108	690	208	345	Reissue filing fee	
114	150	214	75	Provisional filing fee	

**SUBTOTAL (1)** (\$ ) 0.00**2. EXTRA CLAIM FEES**

	Extra Claims	Fee from below	Fee Paid
Total Claims	-20** =	X	
Independent Claims	-3** =	X	
Multiple Dependent			

\*\*or number previously paid, if greater; For Reissues, see below

Large Entity		Small Entity		Fee Description
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	
103	18	203	9	Claims in excess of 20
102	78	202	39	Independent claims in excess of 3
104	260	204	130	Multiple dependent claim, if not paid
109	78	209	39	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ ) 0.00**FEE CALCULATION** (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	380	216	190	Extension for reply within second month	
117	870	217	435	Extension for reply within third month	440.00*
118	1,360	218	680	Extension for reply within fourth month	
128	1,850	228	925	Extension for reply within fifth month	
119	300	219	150	Notice of Appeal	
120	300	220	150	Filing a brief in support of an appeal	
121	260	221	130	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,210	241	605	Petition to revive - unintentional	
142	1,210	242	605	Utility issue fee (or reissue)	
143	430	243	215	Design issue fee	
144	580	244	290	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	
179	690	279	345	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) \*first month extension paid on 5/1/02

\* Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ ) 440.00**SUBMITTED BY**

Name (Print/Type)	Robert L. Wolter, Esquire	Registration No. (Attorney/Agent)	36,972	Telephone	(407) 926-7706
Signature		Date	June 19, 2002		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/026,257	12/21/2001	Robert YS Huang	Huang 3-8-3-2-2-25-5/7509

CONFIRMATION NO. 7889

## FORMALITIES LETTER



\*OC000000007434573\*

BEUSSE, JAMES  
Holland & Knight LLP  
Suite 2600  
2000 South Orange Avenue  
Orlando, FL 32801

Date Mailed: 02/07/2002

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 130.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. ( 5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

*A copy of this notice **MUST** be returned with the reply.*

*Lin C*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY

10026357-062502



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/026,257	12/21/2001	Robert S Huang	Huang 3-8-3-2-25-5/7509

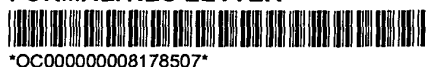
RECEIVED

MAY 28 2002

CONFIRMATION NO. 7889

JAMES H. BEUSSE, ESQUIRE  
BEUSSE BROWNLEE BOWDOIN & WOLTER, P.A.  
SUITE 2500  
390 NORTH ORANGE AVENUE  
ORLANDO, FL 32801

FORMALITIES LETTER



\*OC00000008178507\*

Date Mailed: 05/23/2002

## NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

## Filing Date Granted

The U.S. Patent and Trademark Office has received your reply on 05/07/2002 to the Notice to File Missing Parts (Notice) mailed 02/07/2002 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice.

The period of reply remains as set forth in the Notice. You may, however, obtain EXTENSIONS OF TIME under the provisions of 37 CFR 1.136 (a) accompanied by the appropriate fee (37 CFR 1.17(a)).

A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

*A copy of this notice **MUST** be returned with the reply.*

*ck. Chan*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY

20020523 10:30:00



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/026,257	12/21/2001	Robert YS Huang	Huang 3-8-3-2-2-25-5/7509

JAMES H. BEUSSE, ESQUIRE  
BEUSSE BROWNLEE BOWDOIN & WOLTER, P.A.  
SUITE 2500  
390 NORTH ORANGE AVENUE  
ORLANDO, FL 32801

CONFIRMATION NO. 7889

## FORMALITIES LETTER



Date Mailed: 05/23/2002

## NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

*Filing Date Granted*

The U.S. Patent and Trademark Office has received your reply on 05/07/2002 to the Notice to File Missing Parts (Notice) mailed 02/07/2002 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice.

The period of reply remains as set forth in the Notice. You may, however, obtain EXTENSIONS OF TIME under the provisions of 37 CFR 1.136 (a) accompanied by the appropriate fee (37 CFR 1.17(a)).

A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. ( 5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE